

Mr. Sam Chummar Remedial Project Manager USEPA Region 5 Superfund Division Remedial Response Section #1 77 W. Jackson Blvd. (SR-6J) Chicago, IL 60604 ARCADIS of New York, Inc. 6723 Towpath Road Syracuse New York 13214-0066 Tel 315.446.9120 Fax 315.449.0017 www.arcadis-us.com

INDUSTRIAL

Subject

Georgia-Pacific Corporation Time Critical Removal Action Monthly Progress Report #5

Dear Mr. Chummar:

Attached is the fifth monthly progress report for the Time Critical Removal Action (TCRA) at the Georgia-Pacific Corporation (Georgia-Pacific) Kalamazoo Mill Property and the former Hawthorne Mill Property (collectively referred to as the Mill Properties). The Mill Properties are associated with the Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site. This report has been prepared pursuant to the Administrative Settlement Agreement and Order on Consent (AOC), Docket No. V-W-'07-C-858, and covers activities from March 17, 2007 through April 13, 2007.

Sincerely,

ARCADIS of New York, Inc.

Patrick N. McGuire Associate

Copies

Eileen L. Fury, Esq., USEPA - Region 5 J. Michael Davis, Esq., Georgia-Pacific Corporation L. Chase Fortenberry, P.G., Georgia-Pacific Corporation Keith M. Krawczyk, MDEQ-RRD-Superfund Matthew Bowman, ARCADIS BBLES Christie Sobol, ARCADIS BBL Date:

April 25, 2007

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#### I. Significant Developments

#### **Actions Performed**

- In the previous monthly progress report it was incorrectly noted that on March 8, 15 over packed drums were sampled with United States Environmental Protection Agency (USEPA) and Michigan Department of Environmental Quality (MDEQ) oversight and submitted to STL for PCB and waste characterization analyses (i.e., Toxicity Characteristic Leaching Procedure [TCLP] analyses for VOCs, SVOCs, metals, pesticides; and Resource Conservation and Recovery Act (RCRA) hazardous characteristic analyses). The USEPA and MDEQ did not oversee this sampling.
- During the previous reporting period treated water samples were collected on March 7, 13, and 15. These samples were submitted to Severn Trent Laboratories (STL) for polychlorinated biphenyl (PCB) and total suspended solids (TSS) analyses. The analytical data indicated PCBs and TSS met discharge requirements. On March 19, discharged 15,728 gallons of treated water into Davis Creek after confirming treated water met discharge requirements.
- Completed backfilling the Refuse Area with topsoil during this reporting period.
- During the week of March 19 completed transporting stockpiled material from the Refuse Area to C&C Landfill.
- During the week of March 19 completed repairing the perimeter fence that was removed or damaged during construction activities.
- During the week of April 9, installed Class 2 sand cover over the material placed at A-Site.
- During the week of April 9, began installation of topsoil over Class 2 sand cover at A-Site.
- Continued air and dust monitoring programs, in accordance with the Time Critical Removal Action Work Plan for the Refuse Area at the Georgia-Pacific Corporation Kalamazoo Mill Property and the Oxbow Area at the Former Hawthorne Mill Property (TCRA Work Plan).
- Monitored weather conditions daily to anticipate potential inclement weather.

#### **Problems Encountered**

None.

#### **Analytical Data Received**

 Analytical data for the air samples collected during the previous reporting period (taken three times daily, in accordance with the TCRA Work Plan)



- are presented in Table 1. All results are below the criteria set forth in the TCRA Work Plan.
- Analytical data for the verification soil samples collected during the
  previous reporting period are presented in Table 2. PCBs were either not
  detected or below 1 milligram/kilogram (mg/kg) in 12 of the 45 samples
  submitted. PCBs were detected at a concentration of 2.7 ppm in the
  discrete soil sample collected in the Refuse Area and PCBs were
  detected at an estimated concentration of 3.2 ppm and 2.2 ppm, in the
  soil sample and duplicate sample collected at Location 7 of the
  transformer area.
- Table 3 summarizes the analytical data for the treated water samples collected during the previous reporting period. The treated water samples submitted for analysis during this reporting period, for which there are currently no validated data, are also identified in Table 3.
- Analytical data for other samples (e.g., soil waste characterization samples and water characterization samples) collected during the previous reporting period are presented in Table 4.
- Analytical data for drummed material samples collected during the previous reporting period are presented in Table 5.

#### II. Developments Anticipated

#### Schedule of Actions to be Performed

- Dispose of drummed material and drum remnant pile in the Refuse Area at an appropriate offsite facility.
- Seed Refuse Area in accordance with the USEPA approved vegetation list for site restoration.
- Continue placement of topsoil at A-Site and seed after completion of topsoil placement.
- Place 6-inch Class 2 sand cap over cleared area of A-Site that is outside original backfill footprint.
- Continue demobilization activities.
- Conduct preliminary site walk on April 18 with USEPA, MDEQ, Terra Contracting, ARCADIS BBLES and ARCADIS BBL.
- Conduct final site walk in mid-May approximately 4 weeks after the preliminary site walk.

#### **Anticipated Problems**

None.

#### **Planned Resolutions of Past or Anticipated Problems**

 After further investigation and review of wastewater pipeline drawings, no additional pipeline removal was conducted.

#### **Georgia-Pacific Corporation**

## Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Time Critical Removal Action Final Report for the Refuse Area at the Georgia-Pacific Corporation Kalamazoo Mill Property and the Oxbow Area at the Former Hawthorne Mill Property

#### **Air Monitoring Sample Results**

Sample ID	Sample Location	Sample Date	PCB Concentration (μg/m³) 0.0024				
G53080	AST-PUF-PRE	11/16/06					
G53081	HWY-PUF-PRE	11/16/06	0.0117				
G53082	AST-PUF-001	11/28/06	0.0045				
G53083	HWY-PUF-001	11/28/06	0.0012				
G53084	BKG-PUF-001	11/28/06	0.0009				
G53085	AST-PUF-002	11/29/06	0.0025				
G53086	HWY-PUF-002	11/29/06	0.0061				
G53087	BKG-PUF-002	11/29/06	0.0035				
G53088	AST-PUF-003	11/30/06	0.0023				
G53089	HWY-PUF-003	11/30/06	0.0092				
G53090	BKG-PUF-003	11/30/06	0.0034				
G53091	AST-PUF-004	12/1/06	0.0005				
G53092	HWY-PUF-004	12/1/06	0.0022				
G53093	BKG-PUF-004	12/1/06	0.0004				
G53094	AST-PUF-005	12/2/06	0.0008				
G53095	HWY-PUF-005	12/2/06	0.0011				
G53096	BKG-PUF-005	12/2/06	0.0004				
G53097	AST-PUF-006	12/5/06	0.0005				
G53098	HWY-PUF-006	12/5/06	0.0008 J				
G53099	BKG-PUF-006	12/5/06	0.0009				
G53100	AST-PUF-007	12/6/06	0.0004				
G53101	HWY-PUF-007	12/6/06	0.0017				
G53102	BKG-PUF-007	12/6/06	0.0008				
G53103	AST-PUF-008	12/7/06	0.0005				
G53104	HWY-PUF-008	12/7/06	0.0018				
G53105	BKG-PUF-008	12/7/06	0.0005				
G53106	AST-PUF-009	12/8/06	0.0003				
G53107	HWY-PUF-009	12/8/06	0.0012 J				
G53108	BKG-PUF-009	12/8/06	ND				
G53109	AST-PUF-010	12/9/06	ND				
G53110	HWY-PUF-010	12/9/06	0.0012 J				
G53111	BKG-PUF-010	12/9/06	ND				
G53018	BKG-PUF	12/12/06	0.0008				
G53019	HWY-PUF	12/12/06	0.0027				
G53020	AST-PUF	12/12/06	0.0015				
G53030	BKG-PUF	12/13/06	ND				
G53031	HWY-PUF	12/13/06	0.0015				
G53032	AST-PUF	12/13/06	0.0033				
G53033	HWY-PUF	12/14/06	0.0026				
G53034	AST-PUF	12/14/06	0.0008				
G53035	BKG-PUF	12/14/06	0.0017				
G53036	HWY-PUF	12/15/06	0.0029				
G53037	AST-PUF	12/15/06	0.0013				
G53038	BKG-PUF	12/16/06	0.0006				
G53039	HWY-PUF	12/16/06	0.0027				
G53040	AST-PUF	12/16/06	0.0027 0.0015 J				

#### **Georgia-Pacific Corporation**

## Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Time Critical Removal Action Final Report for the Refuse Area at the Georgia-Pacific Corporation Kalamazoo Mill Property and the Oxbow Area at the Former Hawthorne Mill Property

#### **Air Monitoring Sample Results**

Sample ID	Sample Location	Sample Date	PCB Concentration (µg/m³)			
G53041	BKG-PUF	12/19/06	0.0005			
G53042	HWY-PUF	12/19/06	0.0019			
G53043	AST-PUF	12/19/06	0.0007			
G53044	BKG-PUF	12/20/06	ND			
G53045	HWY-PUF	12/20/06	0.0020			
G53046	AST-PUF	12/20/06	ND J			
G53067	BKG-PUF	12/21/06	0.0027			
G53068	HWY-PUF	12/21/06	0.0020			
G53072	BKG-PUF	12/22/06	0.0005			
G53073	HWY-PUF	12/22/06	0.0026			
G53074	BKG-PUF	12/28/06	0.0009 J			
G53075	HWY-PUF	12/28/06	0.0017			
G53077	BKG-PUF	12/29/06	0.0007			
G53078	HWY-PUF	12/29/06	0.0022			
G53079	AST-PUF	12/29/06	0.0011 J			
G53112	BKG-PUF	12/30/06	0.0004 J			
G53113	HWY-PUF	12/30/06	0.0020			
G53114	AST-PUF	12/30/06	0.0004 J			
G53117	BKG-PUF	1/4/07	0.0010 JN			
G53118	HWY-PUF	1/4/07	0.0008 JN			
G53119	AST-PUF	1/4/07	ND			
G53120	BKG-PUF	1/5/07	0.0012 JN			
G53121	HWY-PUF	1/5/07	0.0011 J			
G53122	AST-PUF	1/5/07	0.0007 J			
G53125	BKG-PUF	1/6/07	0.0030 J			
G53126	HWY-PUF	1/6/07	0.0035 J			
G53127	AST-PUF	1/6/07	0.0017 J			
G53128	BKG-PUF	1/9/07	ND			
G53129	HWY-PUF	1/9/07	0.0014			
G53130	AST-PUF	1/9/07	ND			
G53139	BKG-PUF	1/10/07	ND			
G53140	HWY-PUF	1/10/07	0.0015			
G53141	AST-PUF	1/10/07	0.0006			
G53147	BKG-PUF	1/11/07	0.0010 J			
G53148	HWY-PUF	1/11/07	0.0013			
G53149	AST-PUF	1/11/07	ND			
G53151	HWY-PUF	1/13/07	0.0015			
G53152	BKG-PUF	1/13/07	0.0012			
G53153	AST-PUF	1/13/07	0.0007			
G53156	BKG-PUF	1/17/07	ND			
G53157	HWY-PUF	1/17/07	0.0004			
G53158	AST-PUF	1/17/07	ND			
G53159	BKG-PUF	1/18/07	0.0019			
G53160	HWY-PUF	1/18/07	0.0004			
G53161	AST-PUF	1/18/07	ND			
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#### **Georgia-Pacific Corporation**

## Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Time Critical Removal Action Final Report for the Refuse Area at the Georgia-Pacific Corporation Kalamazoo Mill Property and the Oxbow Area at the Former Hawthorne Mill Property

#### **Air Monitoring Sample Results**

Sample ID	Sample Location	Sample Date	PCB Concentration (μg/m³)				
G53168	HWY-PUF	1/19/07	0.0009				
G53169	AST-PUF	1/19/07	0.0004				
G53170	BKG-PUF	1/23/07	0.0008 J				
G53171	HWY-PUF	1/23/07	0.0008				
G53172	AST-PUF	1/23/07	ND				
G53180	BKG-PUF	1/24/07	ND				
G53181	HWY-PUF	1/24/07	0.0010				
G53182	AST-PUF	1/24/07	0.0004				
G53187	HWY-PUF	1/25/07	0.0010				
G53188	AST-PUF	1/25/07	0.0004				
G53191	BKG-PUF	1/25/07	ND				
G53196	BKG-PUF	1/29/07	0.0006				
G53197	HWY-PUF	1/29/07	ND				
G53198	AST-PUF	1/29/07	ND				
G53200	BKG-PUF	1/30/07	ND				
G53201	AST-PUF	1/30/07	ND				
G53202	BKG-PUF	2/1/07	ND				
G53203	AST-PUF	2/1/07	0.0002				
G53204	BKG-PUF	2/2/07	0.0008 J				
G53205	AST-PUF	2/2/07	ND				
G53208	BKG-PUF	2/4/07	ND				
G53206	AST-PUF	2/5/07	ND				
G53219	AST-PUF	2/7/07	ND				
G53220	AST-PUF	2/8/07	ND				
G53223	AST-PUF	2/9/07	ND				
G53224	BKG-PUF	2/13/07	ND				
G53225	AST-PUF	2/13/07	ND				
G53228	BKG-PUF	2/14/07	ND				
G53229	HWY-PUF	2/14/07	ND				
G53230	AST-PUF	2/14/07	ND				
G53234	BKG-PUF	2/15/07	ND				
G53235	HWY-PUF	2/15/07	0.0011 JN				
G53236	AST-PUF	2/15/07	ND				
G53237	BKG-PUF	2/16/07	ND				
G53238	HWY-PUF	2/16/07	ND				
G53239	AST-PUF	2/16/07	ND				
G53240	BKG-PUF	2/17/07	ND ND				
G53241	HWY-PUF	2/17/07	0.0011 JN				
G53242	AST-PUF	2/17/07	ND				
G53248	BKG-PUF	2/22/07	ND				
G53249	HWY-PUF	2/22/07	0.0009				
G53251	BKG-PUF	2/24/07	ND				
G53252	HWY-PUF	2/24/07	ND				
G53254	BKG-PUF	2/27/07	0.0016 J				
G53255	HWY-PUF	2/27/07	ND				
G53260	BKG-PUF	2/28/07	0.0006 J				

### Georgia-Pacific Corporation Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site

Time Critical Removal Action Final Report for the Refuse Area at the Georgia-Pacific Corporation
Kalamazoo Mill Property and the Oxbow Area at the Former Hawthorne Mill Property

#### **Air Monitoring Sample Results**

Sample ID	Sample Location	Sample Date	PCB Concentration (μg/m³)			
G53261	HWY-PUF	2/28/07	0.0015 J			
G53262	BKG-PUF	3/1/07	ND			
G53263	HWY-PUF	3/1/07	0.0008 J			
G53264	HWY-PUF	3/2/07	0.0015 JN			
G53265	BKG-PUF	3/6/07	ND			
G53266	HWY-PUF	3/6/07	ND			
G53267	BKG-PUF	3/7/07	ND			
G53268	HWY-PUF	3/7/07	ND			
G53269	AST-PUF	3/7/07	ND			
G53310	BKG-PUF	3/10/07	0.0002 J			
G53311	HWY-PUF	3/10/07	0.0009 J			
G53312	AST-PUF	3/10/07	ND			

#### Notes:

- = These samples were submitted for analysis this reporting period. This data will be presented in the next monthly progress report after the validation process has been completed.
- ND = Analyte was not detected.
- J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- JN = The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

# Georgia-Pacific Corporation Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Time Critical Removal Action Final Report for the Refuse Area at the Georgia-Pacific Corporation Kalamazoo Mill Property and the Oxbow Area at the Former Hawthorne Mill Property

#### **Verification Soil Sample Results**

Sample ID	Sample Location	Sample Date	PCB Concentration (μg/Kg)		
G53021	Oxbow 142	12/12/06	ND		
G53022	Oxbow 104	12/12/06	ND		
G53023	Oxbow 105	12/12/06	ND		
G53024	Oxbow 83	12/12/06	ND		
G53025	Oxbow 84	12/12/06	ND		
G53026	Oxbow 86	12/12/06	ND		
G53027	Oxbow 68	12/12/06	ND		
G53028	Oxbow 47	12/12/06	ND		
G53029	Oxbow 47 DUP	12/12/06	ND		
G53047	Oxbow 44	12/20/06	ND		
G53048	Oxbow 12	12/20/06	ND		
G53049	Oxbow 10	12/20/06	ND		
G53050	Oxbow 26	12/20/06	ND		
G53051	Oxbow 59	12/20/06	ND		
G53052	Oxbow 8	12/20/06	ND		
G53053	Oxbow 6	12/20/06	ND		
G53054	Oxbow 22	12/20/06	ND		
G53055	Oxbow 21	12/20/06	ND		
G53056	Oxbow 21 DUP	12/20/06	ND		
G53057	Oxbow 37	12/20/06	ND		
G53058	Oxbow 35 MS/MSD	12/20/06	ND		
G53059	Oxbow 54	12/20/06	ND		
G53060	Oxbow 52	12/20/06	ND		
G53061	Oxbow 18	12/20/06	ND		
G53062	Oxbow 17	12/20/06	ND		
G53063	Oxbow 1	12/20/06	ND		
G53064	Oxbow 2	12/20/06	ND		
G53065	Oxbow 2 DUP	12/20/06	ND		
G53066	Oxbow 3	12/20/06	ND		
G53069	Oxbow 45	12/21/06	ND		
G53070	Oxbow 156	12/21/06	ND		
G53071	Oxbow 173	12/21/06	ND		
G53131	Oxbow 95	1/9/07	143		
G53132	Oxbow 95 DUP	1/9/07	179		
G53133	Oxbow 94	1/9/07	ND		
G53134	Oxbow 75 MS/MSD	1/9/07	ND		
G53135	Oxbow 96	1/9/07	ND		
G53136	Oxbow 98	1/9/07	ND		
G53137	Oxbow 157	1/9/07	ND		
G53138	Oxbow 158	1/9/07	ND		
G53142	Oxbow 144	1/10/07	ND		
G53143	Oxbow 89	1/10/07	ND		
G53144	Oxbow 162	1/10/07	243		
G53175	Refuse 39	1/23/07	ND		
G53176	Refuse 33	1/23/07	ND		
G53177	Refuse 33 DUP	1/23/07	ND		

# Georgia-Pacific Corporation Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Time Critical Removal Action Final Report for the Refuse Area at the Georgia-Pacific Corporation Kalamazoo Mill Property and the Oxbow Area at the Former Hawthorne Mill Property

#### **Verification Soil Sample Results**

Sample ID	Sample Location	Sample Date	PCB Concentration (μg/Kg)
G53178	Refuse 27	1/23/07	ND
G53179	Refuse 20	1/23/07	28
G53195	Oxbow 133	1/26/07	ND
G53209	Refuse 12 MS/MSD	2/6/07	129
G53210	Refuse 5	2/6/07	ND
G53211	Refuse SW 53	2/6/07	ND
G53212	Refuse SW 60 DUP	2/6/07	ND J
G53213	Refuse 60	2/6/07	1,520 J
	Refuse Discrete Verification		
G53214	Sample	2/7/07	ND
	Oxbow Discrete Verification		
G53215	Sample	2/7/07	ND
G53216	Oxbow 185	2/7/07	ND
G53217	Oxbow 185 DUP	2/7/07	ND
G53218	Oxbow 186	2/7/07	ND
G53221	Refuse SW 51	2/8/07	ND
G53222	Oxbow 160	2/8/07	ND
G53226	Refuse 5	2/13/07	254
G53227	Refuse 17	2/13/07	34
G53243	Oxbow 118	2/21/07	500
G53244	Oxbow 117	2/21/07	630
G53245	Oxbow 136 MS/MSD	2/21/07	680
G53246	Oxbow 154	2/21/07	810 J
	Refuse Discrete Verification		2,700
G53247	Sample	2/21/07	
G53250	Oxbow 192	2/24/07	ND
G53253	Oxbow 190	2/26/07	ND
G53256	Refuse 34 MS/MSD DUP	2/28/07	ND
G53257	Refuse 34 MS/MSD DUP	2/28/07	ND
G53258	Refuse 30 MS/MSD	2/28/07	ND
G53259	Refuse 29	2/28/07	ND
G53271	Waste Water Pipeline 1-1	3/2/07	ND
G53272	Waste Water Pipeline 1-5	3/2/07	ND
G53273	Waste Water Pipeline 1-7	3/2/07	ND
G53274	Waste Water Pipeline 1-9	3/2/07	ND
G53275	Waste Water Pipeline 1-11	3/2/07	ND
G53276	Waste Water Pipeline 1-13	3/5/07	ND
G53277	Waste Water Pipeline 1-15	3/5/07	ND
G53278	Waste Water Pipeline 1-27	3/6/07	ND
G53279	Waste Water Pipeline 1-28	3/6/07	ND
G53307	Waste Water Pipeline Dup 7	3/6/07	ND
G53296	Transformer – 1	3/8/07	23
G53297	Transformer – 2	3/8/07	ND
G53298	Transformer – 3	3/8/07	59
G53299	Transformer – 4	3/8/07	192 J
G53300	Transformer – 5	3/8/07	470 JN

# Georgia-Pacific Corporation Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Time Critical Removal Action Final Report for the Refuse Area at the Georgia-Pacific Corporation Kalamazoo Mill Property and the Oxbow Area at the Former Hawthorne Mill Property

#### **Verification Soil Sample Results**

Sample ID	Sample Location	Sample Date	PCB Concentration (µg/Kg)
G53301	Transformer – 6	3/8/07	ND
G53302	Transformer – 7	3/8/07	3,220 J
G53303	Transformer – 8	3/8/07	268
G53304	Transformer – 9	3/8/07	480 JN
G53305	Transformer – 11	3/8/07	30
G53306	Transformer – Dup 7	3/8/07	2,170
G53315	Addendum Pipe #2	3/10/07	ND
G53316	Addendum Pipe #7	3/10/07	ND
G53317	Addendum Pipe #11	3/14/07	ND
G53318	Addendum Pipe #14	3/13/07	ND
G53319	Addendum Pipe #20	3/13/07	ND
G53320	Addendum Pipe #23	3/14/07	ND
G53321	Addendum Pipe #27	3/14/07	ND
G53322	Addendum Pipe #31	3/14/07	21
G53323	Addendum Pipe #35	3/15/07	194
G53324	Addendum Pipe #38	3/15/07	ND
G53325	Addendum Pipe – Dup #7	3/10/07	ND

#### Notes:

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J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.

#### **Georgia-Pacific Corporation**

## Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Time Critical Removal Action Final Report for the Refuse Area at the Georgia-Pacific Corporation Kalamazoo Mill Property and the Oxbow Area at the Former Hawthorne Mill Property

#### **Treated Water Results**

Sample ID	Sample Location	Sample Date	PCB Concentration (µg/I)
G53115	Treated Water Sample #1	1/3/07	0.222 J
G53146	Re-treated Water Sample #2	1/10/07	ND
G53150	Treated Water Sample #3	1/11/07	ND
G53154	Treated Water Sample #4	1/15/07	ND
G53162	Water Treatment System Carbon Tank A	1/19/07	ND
G53163	Water Treatment System Carbon Tank D	1/19/07	ND
G53164	Treated Water Sample #5a	1/19/07	ND
G53186	Treated Water Sample #5b	1/25/07	ND
G53199	Treated Water Sample #6	1/29/07	ND
G53207	Treated Water Sample #7	2/5/07	ND
G53270	Treated Water Sample #8	3/7/07	ND
G53308	Treated Water Sample #9	3/13/07	ND
G53313	Treated Water Sample #10	3/15/07	ND
G53314	Treated Water Sample #11	3/20/07	ND
G53326	Treated Water Sample #12	4/16/07	
G53327	Treated Water Sample #13	4/16/07	

#### Notes:

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ND = Analyte was not detected.

= The compound was positively identified; however, the associated numerical value is an estimated concentration only.

#### Georgia-Pacific Corporation

Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site

Time Critical Removal Action Final Report for the Refuse Area at the Georgia-Pacific Corporation Kalamazoo Mill Property

and the Oxbow Area at the Former Hawthorne Mill Property

#### Other Sampling Results

				Sample ID			
			Soil/Waste (	Characterization	on Samples		
Constituent	G53076 Drum Refuse 12/28/06	G53123 Refuse Area 1/5/07	G53124 Transformer Area 1/5/07	G53192 Transformer Area 1/25/07	G53278 Waste Water Pipeline 1 - 7 3/2/07	G53300 Tranformer Area - 6 3/8/07	G53317 Addendum Pipe #11 3/14/07
Polychlorinated Biphenyls	0.063	NA	8.5	NA	ND	-	0.021
Vinyl Chloride	ND	ND	NA	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	NA	ND	ND	ND	ND
2-Butanone	ND	ND	NA	0.017 J	ND J	ND J	ND
Chloroform	ND	ND	NA	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	NA	ND	ND	ND	ND
Benzene	ND	ND	NA	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	NA	ND	ND	ND	ND
Trichloroethene	ND	ND	NA	ND	ND	ND	ND
Tetrachloroethene	ND	ND	NA	ND	0.002 J	ND	ND
Chlorobenzene	ND	ND	NA	ND	ND	ND	ND
Pyridine	ND	ND	NA	ND	NA	NA	NA
1,4-Dichlorobenzene	ND	ND	NA	ND	NA	NA	NA
2-Methylphenol	ND	ND	NA	ND	NA	NA	NA
4-Methylphenol	ND	ND	NA	ND	NA	NA	NA
Hexachloroethane	ND	ND	NA	ND	NA	NA	NA
Nitrobenzene	ND	ND	NA	ND	NA	NA	NA
Hexachlorobutadiene	ND	ND	NA	ND	NA	NA	NA
2,4,6-Trichlorophenol	ND	ND	NA	ND	NA	NA	NA
2,4,5-Trichlorophenol	ND	ND	NA	ND	NA	NA	NA
2,4-Dinitrotoluene	ND	ND	NA	ND	NA	NA	NA
Hexachlorobenzene	ND	ND	NA	ND	NA	NA	NA
Pentachlorophenol	ND	ND	NA	ND	NA	NA	NA
Arsenic	0.008 B	ND	NA	ND	0.012	ND	0.024
Barium	1.990	1	NA	0.343	0.064	0.661	0.215 J
Cadmium	0.014 J	0.011	NA	0.027	0.0002 B	ND	0.007
Chromium	0.060	0.006	NA	ND	0.009	ND	0.007
Lead	0.093	0.039	NA	3.530	0.004	ND	0.007
Mercury	ND	ND	NA	ND	ND	ND	ND
Selenium	ND	ND	NA	ND	ND	ND	ND
Silver	ND	ND	NA	ND	ND	ND	ND
Ignitability (°F)	>200	>200	NA	>200	NA	NA	NA
Corrosivity (pH)	8.1	7.5	NA	6.6	NA	NA	NA
Reactivity	$ND^1$	ND <sup>1</sup>	NA	ND <sup>1</sup>	NA	NA	NA
Total Suspended Solids	NA	NA	NA	NA	NA	NA	NA

#### Georgia-Pacific Corporation

Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site

Time Critical Removal Action Final Report for the Refuse Area at the Georgia-Pacific Corporation Kalamazoo Mill Property

and the Oxbow Area at the Former Hawthorne Mill Property

#### Other Sample Results

				Sam	nple ID			
			W	ater Characte	erization Samp	les		
Constituent	G53145 Oxbow 1/10/07	G53155 Oxbow 1/16/07	G53184 Refuse 1/24/07	G53165 River Upstream 1/19/07	G53166 River Downstream 1/19/07	G53173 River Upstream 1/23/07	G53174 River Downstream 1/23/07	G53183 River Upstream 1/24/07
Polychlorinated Biphenyls	ND	ND	0.0001	ND	ND.	ND	ND	ND
Vinyl Chloride	NA NA	ND ND	0.0001 ND	NA NA	NA NA	NA NA	NA NA	NA NA
1,1-Dichloroethene	NA NA	ND	ND	NA NA	NA NA	NA NA	NA NA	NA NA
2-Butanone	NA NA	ND	ND	NA NA	NA NA	NA NA	NA NA	NA NA
Chloroform	NA NA	ND	ND	NA NA	NA NA	NA NA	NA NA	NA
Carbon Tetrachloride	NA NA	ND	ND	NA NA	NA NA	NA NA	NA NA	NA
Benzene	NA	ND	ND	NA.	NA NA	NA	NA NA	NA
1.2-Dichloroethane	NA NA	ND	ND	NA NA	NA NA	NA NA	NA NA	NA
Trichloroethene	NA	ND	ND	NA.	NA NA	NA	NA NA	NA
Tetrachloroethene	NA	ND	ND	NA.	NA NA	NA	NA NA	NA
Chlorobenzene	NA	ND	ND	NA	NA	NA	NA	NA
Pvridine	NA	ND	ND	NA	NA	NA	NA	NA
1.4-Dichlorobenzene	NA	ND	ND	NA	NA	NA	NA	NA
2-Methylphenol	NA	ND	ND	NA	NA	NA	NA	NA
4-Methylphenol	NA	ND	ND	NA	NA	NA	NA	NA
Hexachloroethane	NA	ND	ND	NA	NA	NA	NA	NA
Nitrobenzene	NA	ND	ND	NA	NA	NA	NA	NA
Hexachlorobutadiene	NA	ND	ND	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NA	ND	ND	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	ND	ND	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NA	ND	ND	NA	NA	NA	NA	NA
Hexachlorobenzene	NA	ND	ND	NA	NA	NA	NA	NA
Pentachlorophenol	NA	ND	ND	NA	NA	NA	NA	NA
Arsenic	NA	0.007 B	ND	NA	NA	NA	NA	NA
Barium	NA	0.117 B	0.084 B	NA	NA	NA	NA	NA
Cadmium	NA	ND	ND	NA	NA	NA	NA	NA
Chromium	NA	0.004 B	ND	NA	NA	NA	NA	NA
Lead	NA	0.004 B	0.005 B	NA	NA	NA	NA	NA
Mercury	NA	ND	ND	NA	NA	NA	NA	NA
Selenium	NA	ND	ND	NA	NA	NA	NA	NA
Silver	NA	ND	ND	NA	NA	NA	NA	NA
Ignitability (°F)	NA	NA	NA	NA	NA	NA	NA	NA
Corrosivity (pH)	NA	NA	NA	NA	NA	NA	NA	NA
Reactivity	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	11	36.3	4.8	NA	NA	NA	NA	NA

#### **Georgia-Pacific Corporation**

## Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Time Critical Removal Action Final Report for the Refuse Area at the Georgia Pacific Corporation Kalamazoo Mill Property and the Oxbow Area at the Former Hawthorne Mill Property

#### Other Sampling Results

			Sample ID		
		Water Cl	naracterization	Samples	
Constituent	G53185 River Downstream 1/24/07	G53189 River Upstream 1/25/07	G53190 River Downstream 1/25/07	G53193 River Upstream 1/26/07	G53194 River Downstream 1/26/07
Polychlorinated Biphenyls	ND	ND	ND	ND	ND
Vinyl Chloride	NA NA	NA NA	NA NA	NA NA	NA NA
1,1-Dichloroethene	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA NA	NA	NA
Chloroform	NA	NA	NA NA	NA	NA
Carbon Tetrachloride	NA	NA	NA NA	NA	NA
Benzene	NA NA	NA	NA NA	NA	NA NA
1.2-Dichloroethane	NA NA	NA	NA NA	NA NA	NA NA
Trichloroethene	NA	NA	NA NA	NA	NA NA
Tetrachloroethene	NA	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	NA	NA
Pyridine	NA	NA	NA	NA	NA
1.4-Dichlorobenzene	NA	NA	NA	NA	NA
2-Methylphenol	NA	NA	NA	NA	NA
4-Methylphenol	NA	NA	NA	NA	NA
Hexachloroethane	NA	NA	NA	NA	NA
Nitrobenzene	NA	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NA	NA	NA	NA	NA
Hexachlorobenzene	NA	NA	NA	NA	NA
Pentachlorophenol	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA
Ignitability (°F)	NA	NA	NA	NA	NA
Corrosivity (pH)	NA	NA	NA	NA	NA
Reactivity	NA	NA	NA	NA	NA
Total Suspended Solids	NA	NA	NA	NA	NA

#### Notes:

Concentrations are in parts per million (ppm) unless otherwise noted.

<sup>&</sup>lt;sup>1</sup>The characteristic of reactivity is determined by measuring the release of cyanide or sulfide from the waste, both of which were not detected in the sample.

<sup>— =</sup> These samples were submitted for analysis this reporting period. This data will be presented in the next monthly progress report after the validation process has been completed.

ND = Analyte was not detected.

NA = Compound was not analyzed for.

B = The reported value was obtained from a reading less than the contract-required detection limit, but greater than or equal to the instrument detection limit.

J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.

### Georgia-Pacific Corporation Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site

### Time Critical Removal Action Final Report for the Refuse Area at the Georgia-Pacific Corporation Kalamazoo Mill Property and the Oxbow Area at the Former Hawthorne Mill Property

#### Waste Characterization Data of Drummed Material

		0.50000	050004	0.50000		050000	05000	0.50000	050000	0.50000	050004	050000	05000		050004	G53306
	Sample ID Drum Number	G53280 Drum 1	G53281 Drum 2	G53282 Drum 3	G53283 Drum 4	G53286 Drum 7	G53287 Drum 8	G53288 Drum 9	G53289 Drum 10	G53290 Drum 11	G53291 Drum 12	G53292 Drum 13	G53293 Drum 14	G53295 Drum 14 DUP	G53294 Drum 15	Drum Remnant Pile
Constituent	Sample Date	3/8/07	3/8/07	3/8/07	3/8/07	3/8/07	3/8/07	3/8/07	3/8/07	3/8/07	3/8/07	3/8/07	3/8/07	3/8/07	3/8/07	3/8/07
Total Polychlorinated Biphenyls	10	0.690	0.102	ND	ND	0.170	ND	0.165	ND	ND	ND	ND	ND	ND	ND	2.170
Vinyl Chloride	0.2	ND	ND	ND	ND	ND	ND	ND	ND							
1,1-Dichloroethene	0.7	ND	ND	ND	ND	ND	ND	ND	ND							
2-Butanone	200	ND	ND	ND	ND	ND	ND	ND	ND							
Chloroform	6	ND	ND	ND	ND	ND	ND	ND	ND							
Carbon Tetrachloride	0.5	ND	ND	ND	ND	ND	ND	ND	ND							
Benzene	0.5	ND	ND	ND	ND	ND	ND	ND	ND							
1,2-Dichloroethane	0.5	ND	ND	ND	ND	ND	ND	ND	ND							
Trichloroethene	0.5	ND	ND	ND	ND	ND	ND	ND	ND							
Tetrachloroethene	0.7	ND	ND	ND	0.014 J	0.012 J	ND	0.009 J	ND	ND	ND	2.500	0.013 J	ND	ND	0.010 J
Chlorobenzene	100	ND	ND	ND	ND	ND	ND ND	ND	ND							
Pyridine	35	ND	ND	ND	ND	ND	ND ND	ND	ND ND							
1,4-Dichlorobenzene	7.5	ND	ND	ND	ND	ND	ND	ND	ND							
2-Methylphenol	4,200	ND	ND	ND	0.005 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol	4,200	ND	ND	ND	0.005 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	3	ND	ND	ND	ND	ND	ND	ND	ND							
Nitrobenzene	2	ND	ND	ND	ND	ND	ND ND	ND	ND ND							
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND ND	ND	ND							
2,4,6-Trichlorophenol	2	ND	ND	ND	ND	ND	ND ND	ND	ND ND							
2,4,5-Trichlorophenol	400	ND	ND	ND	ND	0.014 J	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	ND
2,4-Dinitrotoluene	30.13	ND	ND	ND	ND	ND	ND	ND	ND							
Hexachlorobenzene	30.13	ND	ND	ND	ND	ND	ND ND	ND	ND							
Pentachlorophenol	100	0.140	ND	ND	ND	ND	ND	ND ND	ND	ND						
Arsenic	5	ND	ND	ND	ND	ND	ND	ND	ND							
Barium	100	0.862	1.490	ND	0.160 B	1.040	3.280	0.691	ND	ND	ND	ND	ND	ND	0.013 B	1.790
Cadmium	1	0.027	0.014	ND	ND	0.007	0.020	0.005	ND	ND	ND	ND	ND	ND ND	ND	0.014
Chromium	5	ND	ND	0.002 B	ND	ND	0.148	0.065	0.011	ND	ND	ND	ND	ND	ND	0.035
Lead	5	0.060	0.020	ND	ND	0.037	1.260	0.031	0.082	ND	ND	ND	ND	ND ND	ND	0.028
Mercury	0.2	ND	ND	ND	ND	ND	ND	ND	ND							
Selenium	1	ND	ND	ND	ND	ND	ND ND	ND	ND ND							
Silver	5	ND	ND	ND	ND	ND	ND	ND	ND							
gamma-BHC (Lindane)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	ND ND
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND ND	ND
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	ND ND
Endrin	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	ND ND
Methoxychlor	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	ND ND
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	ND ND
2,4-D	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-TP (Silvex)	ND ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND
Ignitability (°F)	>140	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200
Corrosivity (pH)	>2 or < 12.5	7.7	7.9	8.4	9.1	7.5	8.3	8.0	5.5	10.6	11.1	11.1	10.0	10.0	10.3	7.9
Reactivity <sup>1</sup>	2 2 3 1 1 1 2 3	ND	ND	ND	ND	ND	ND	ND	ND							
Paint Filter Test		Passed	Passed	Failed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed
100t		. 40004	. 40004	. unou	. 40004	. 40004	. 40004	. 40004	. 40004	7 40004	. 40004	. 40004	. 40004	. 40004	. 40004	. 40004

#### Notes:

Concentrations are in parts per million (ppm) unless otherwise noted.

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<sup>&</sup>lt;sup>1</sup>The characteristic of reactivity is determined by measuring the release of cyanide or sulfide from the waste, both of which were not detected in the sample.